



PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	
PO039087	ACI001-VC	1	1	Net 30	M6061T6S1.250X14.000	6061-T6 Sheet 1.250"" Thick x 14.000"" Wide MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209				8	3/2/2018	8		S048548	Stock	3/6/2018	\$ 101.01 / ft	
		13			M6061T6R2.375	6061-T6 Round Bar 2.375"" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					4	3/9/2018	4		S048549	Stock	3/6/2018	\$ 28.75 / ft
		14			M6061T6R3.750	6061-T6 Round Bar 3.750"" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft							4		S048550	Stock	3/6/2018	\$ 56.25 / ft
		15			M6061T6R6.250	6061-T6 Round Bar 6.250"" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft							4		S048551	Stock	3/6/2018	\$ 147.00 / ft
Total:											20	20						



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039087

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO039087

PO Date: 2/22/18

Due Date: 2/28/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED

FEB 23 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: quotation # sou0086168

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M6061T6S1.250X14.000		6061-T6 Sheet 1.250" Thick x 14.000" Wide MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209	Firmed	3/2/18	8 ft	0 ft	8 ft	\$101.01375/ft	\$808.11
2	MT-4140QT-R0.625		AISI 4140 Quenched & Tempered Steel Round Bar 0.625" Dia. AISI 4140 Q&T Round Bar MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	20 ft	0 ft	20 ft	\$2.878/ft	\$57.56
3	MT-4140QT-R2.750		AISI 4140 Q&T Round Bar Firmed MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	6 ft	0 ft	6 ft	\$37.57666/ft	\$225.46
4	MT-4140QT-R3.750		AISI 4140 Q&T Round Bar Firmed MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	6.167 ft	0 ft	6 ft	\$154.44341/ft	\$952.45

Line Item Note: please cut bar in half to heavy for receiving

Items											
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price	
5	MT-4140QT-R1.000		AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia. AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	10 ft	0 ft	10 ft	\$4.664/ft	\$46.64	
6	M17-4-H1150-R2.000		17-4 SS Round Bar 2.000" : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	3/6/18	6 ft	0 ft	6 ft	\$100.3333/ft	\$602.00	
7	M17-4-H1150-R1.500		17-4 SS Round Bar 1.500" : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	3/9/18	7.667 ft	0 ft	8 ft	\$56.08744/ft	\$430.02	
8	M1018R3.125		1018 Round Bar 3.125 MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	Firmed	3/9/18	8 ft	0 ft	8 ft	\$60.375/ft	\$483.00	
9	MT-HRS-R-2.500		Hot Rolled Steel Round Bar 2.500	Firmed	2/28/18	10 ft	0 ft	10 ft	\$13.676/ft	\$136.76	
Line Item Note please cut bar in half to heavy for receiving											
10	MT-A513-T-0.750W0.188		A513 Seamless Alloy Steel Round Tubing 0.75"dia. x 0.188" Wall	Firmed	2/28/18	20 ft	0 ft	20 ft	\$4.25/ft	\$85.00	
11	M6061T6R0.625		6061-T6 Round Bar .625" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/28/18	40 ft	0 ft	40 ft	\$0.99625/ft	\$39.85	
12	M6061T6R0.563		6061-T6 Round Bar .563 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/28/18	96 ft	0 ft	96 ft	\$1.0897222/ft	\$104.61	

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Items		Unit Price (CAD)	Extended Price
							Received Quantity	Balance		
13	M6061T6R2.375		6061-T6 Round Bar 2.375"	Firmed	2/28/18	4 ft	0 ft	4 ft	\$28.75/ft	\$115.00
			: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				4		DAS 11 9-89	MAR 06 2018
14	M6061T6R3.750		6061-T6 Round Bar 3.750"	Firmed	2/28/18	4 ft	0 ft	4 ft	\$56.25/ft	\$225.00
			: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				4		DAS 11 9-89	MAR 06 2018
15	M6061T6R6.250		6061-T6 Round Bar 6.250"	Firmed	2/28/18	4 ft	0 ft	4 ft	\$147.00/ft	\$588.00
			: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				4		DAS 11 9-89	MAR 06 2018

Grand Total: \$4,899.47

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Plex 2/22/18 1:26 PM dart.lavoie.chantal

Quotation

SOU0086168

Billed to

DART AEROSPACE LTD

 1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°	CLI0001056
Date	2018/02/14
Revision N°	0
Prices valid until	2018/02/21
Your Order N°	
Processed by	Josianne Bourdon
Salesman	JOSIANNE
Carrier	OUELLE SDV
Credit Terms	Net 30 Days
Page	1

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453 1 X 14" X 96" 4-5 JOURS	179.60	10.00 PI2_\$CLB	10.00 PI2		1.00	808.110	808.11
						101.0375	
ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977 1 X 20' R/L 2-3 DAYS	20.86	20.00 PI_\$CLB	20.00 PI		1.00	57.560	57.56
						2.373	
ROUND 4140 HEAT TREAT 2 3/4 RANDOM R4140-234H-V 4931 1 X 6' 2-3 DAYS	126.78	6.00 PI_\$CLB	6.00 PI		1.00	225.460	225.46
COUPE A LA SCIE SCIE 1		1.00 UN	1.00			37.5764	
ROUND 4140 HEAT TREAT 3 3/4 RANDOM R4140-334H-V 4945 1 X 74" 2-3 DAYS	232.86	6.00 PI_\$CLB	6.00 PI		1.00	952.400	952.40
						154.4431	
ROUND 4140 HEAT TREAT 1 RANDOM R4140-1H-V 4919 1 X 10' STOCK	26.70	10.00 PI_\$CLB	10.00 PI		1.00	46.640	46.64
COUPE A LA SCIE SCIE 1		1.00 UN	1.00			4.664	
ROND 17-4 H1150 2" DIA N 1 X 6' 6-8 DAYS	0.00	1.00 UN	1.00 UN		1.00	602.000	602.00
						100.3333	
ROND 17-4 H1150 1 1/2" DIA N 1 X 92" 7-10 DAYS	0.00	1.00 UN	1.00 UN		1.00	430.000	430.00
						54.0574	
ROND CR 1018 3 1/8" DIA N 1 X 8' 7-10 DAYS	0.00	1.00 UN	1.00 UN		1.00	483.000	483.00
						60.375	

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0086168

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
ROUND HR 2 1/2 RANDOM RHR-212-V 4866 1 X 10' STOCK	166.90	10.00 PI_\$CLB	10.00 PI		1.00	136.760	136.76
COUPE A LA SCIE SCIE 1		1.00 UN	1.00			13.674	
TUBE MEC 0.750 OD X .188 VARIE TME-0750188-V 6783 1 X 20' R/L STOCK	22.56	20.00 PI_\$CPI	20.00 PI		1.00	85.000	85.00
						4.25	
ROUND ALU 5/8 6061-T6 RANDOM RAL-58-V 5169 2 X 20' STOCK	14.44	40.00 PI_\$CLB	40.00 PI		2.00	19.925	39.85
						.99625	
ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180 8 X 12' STOCK	28.13	96.00 PI_\$CLB	96.00 PI		8.00	13.077	104.62
						1.0897914	
ROND ALU 2 3/8" OD 6061T6 N 1 X 4' 3-4 DAYS	0.00	1.00 UN	1.00 UN		1.00	115.000	115.00
						28.75	
ROND ALU 3 3/4" OD 6061T6 N 1 X 4' 3-4 DAYS	0.00	1.00 UN	1.00 UN		1.00	225.000	225.00
						56.25	
ROND ALU 6 1/4" OD 6061T6 N 1 X 4' 3-4 DAYS	0.00	1.00 UN	1.00 UN		1.00	588.000	588.00
						147.00	
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE		\$					3.95
Total Weight (Lbs)	818.83						

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approuved and Accepted by : _____

Sub-total 4 903.35

TVH-13 637.44

Date : _____ **Total (\$CAD)** 5 540.79

**ACIER OUELLETTE INC.****CO00075644**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

2018/03/06

039087
Josianne Bourdon

OUELLETTE VALLEYFIELD

Net: 30 Days

Order - Sales

CLI0001056

2018/02/23

2018/03/06

039087

Josianne Bourdon

Billed to
DART AEROSPACE LTD

Shipped to
1270 , ABERDEEN ST.
, Ontario,
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5
Page 1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453 1 X 14" X 96" HEAT: H2L0522 AC13844-7H-01/03	179.60	10.00	PI2-\$CLB	1.00			8			
2 ROUND ALU 2 3/8 6061-T6 NS RAL-238 10133 1 X 4' RM (HEAT: Z00169142 AC13842-26/02	20.80	4.00	PI-\$CLB	1.00			4			
3 ROUND ALU 3 3/4 6061-T6 NS RAL-334 10134 1 X 4"HEAT: 201703076 AC13844-7H-01/03	51.96	4.00	PI-\$CLB	1.00			4			

NIR : R-109516-6

[Next Page...](#)

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext: 866-456-4242

Order - Sales**Copy**

CO00075644

Customer N° CL10001056
Date 2018/02/23

2018/03/06

Your order N° 039087
Josianne Bourdon

Billed to
DART AEROSPACE LTD
Shipped to
Ontario,

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5
Page 2

Customer N° CL10001056
Date 2018/02/23

Processed by
Salesman
Carrier
Credit Terme
Net 30 Days

Product Description	Weight	Qty	U/M	Pcs Nb						Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT		
4 ROUND ALU 6 1/4 6061-T6 NS RAL-614 10135 1 X 4 HEAT: 20028320 AC13844-TH-01/03	141.30	4.00	PI-\$CLB	1.00				1					
FRAIS ENERGETIQUE SURCHARGE ENERGETIQUE				\$	0.00								

Total Weight (LBS): 1 393.66**NIR : R-109516-6****Conditions :**

All sold and delivered materials remain the property of "Aciér Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Aciér Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Aciér Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the re-possession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total (\$CAD)
Deposit 0.00
Balance 1 966.27

Prepared By : <input type="text"/>	Verified By : <input type="text"/>	Delivered By : <input type="text"/>	Time <input type="text"/>	Customer's Signature <input type="text"/>
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SOUTHWEST ALUMINIUM (GROUP) CO., LTD.
 XIPENG TOWN, JULONG PO DISTRICT, CHONGQING CITY 401326, CHINA

MILL CERTIFICATE

DATE:2017-07-22

PRODUCT

ALUMINUM SHEET

SPECIFICATION

17304059

ASTM B209-2007; AMS 4027N; ANSI/HB5.2; ASME SB209; ASME-QA-250/11

AAM PO No.

339889

FILE NO.

SWA 2017-27

INVOICE NO.

Serial No.	Alloy&Temper	Size (inch)	Lot No	Mechanical Property										Chemical Composition							Actual Thickness (mm/inch)
				Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Na	Others	Al 2			
1	A6061 T651	25.4X1231.9X2451.1	H2L0104	322-326	303-308	11-14.5	0.66	0.21	0.25	0.06	0.93	0.15	/	0.04	0.01	/	50.05	Rebar/rod	25.07-25.80MM.		
2	A6061 T651	25.4X1231.9X2451.1	H2L0105	318-329	296-307	12-14.5	0.68	0.21	0.25	0.06	0.93	0.15	/	0.04	0.01	/	50.05	Rebar/rod	25.71-25.75MM.		
3	A6061 T651	25.4X1231.9X2451.1	H2L0227	319-322	393-301	13.5-15	0.68	0.2	0.21	0.05	0.9	0.15	/	0.03	0.01	/	50.05	Rebar/rod	25.83-25.85MM.		
4	A6061 T651	25.4X1231.9X2451.1	H2L0106	322-330	297-301	15-18.5	0.68	0.21	0.25	0.06	0.93	0.15	/	0.04	0.01	/	50.05	Rebar/rod	25.74-25.80MM.		
5	A6061 T651	25.4X1231.9X2451.1	H2L0883	318-329	303-310	11-13	0.67	0.2	0.24	0.10	0.9	0.16	/	0.04	0.02	/	50.05	Rebar/rod	25.69-26.64-25.73MM.		
6	A6061 T651	25.4X1231.9X2451.1	H2L0884	320-323	305-308	10.5-14	0.67	0.2	0.24	0.10	0.9	0.16	/	0.04	0.02	/	50.05	Rebar/rod	25.74-25.77-25.85MM.		
7	A6061 T651	25.4X1231.9X2451.1	H2L0895	320-324	298-305	11-13	0.67	0.2	0.24	0.10	0.9	0.16	/	0.04	0.02	/	50.05	Rebar/rod	25.74-25.77-25.85MM.		
8	A6061 T651	31.75X1231.9X3670.3	H2L2207	318-323	285-300	13.5-15	0.69	0.3	0.26	0.01	0.9	0.16	/	0.04	0.01	/	50.05	Rebar/rod	30.98-32.10MM.		
9	A6061 T651	31.75X1231.9X3670.3	H2L2208	315-322	291-294	13.5-16.5	0.69	0.3	0.25	0.01	0.9	0.16	/	0.04	0.01	/	50.05	Rebar/rod	31.50-32.16MM.		
10	A6061 T651	31.75X1231.9X3670.3	H2L0522	313-319	283-292	12.5-14.5	0.67	0.3	0.24	0.06	0.9	0.15	/	0.03	0.01	/	50.05	Rebar/rod	32.12-32.35MM.		
11	A6061 T651	31.75X1231.9X3670.3	H2L2641	314-317	300-302	10-13	0.70	0.3	0.26	0.06	1.0	0.15	/	0.03	0.02	/	50.05	Rebar/rod	32.15-32.30MM.		
12	A6061 T651	50.8X1236.7X3670.3	H2L6024	323-325	296-303	11-14	0.71	0.3	0.27	0.06	1.0	0.14	/	0.02	0.01	/	50.05	Rebar/rod	51.32-51.35MM.		
13	A6061 T651	69.85X1536.7X3670.3	H2L1654	315-316	292-295	8.5-9	0.70	0.2	0.22	0.06	1.0	0.14	/	0.04	0.01	/	50.05	Rebar/rod	70.80-70.71MM.		
14	A6061 T651	76.2X1231.9X3670.3	H2L6025	332-334	298-306	12-12.5	0.69	0.3	0.26	0.07	0.9	0.15	/	0.04	0.01	/	50.05	Rebar/rod	76.87-76.93MM.		
15	A6061 T651	76.2X1231.9X3670.3	H2L6028	325-331	292-306	12-12.5	0.68	0.3	0.24	0.06	0.9	0.15	/	0.04	0.02	/	50.05	Rebar/rod	76.89-76.91MM.		
16	A6061 T651	114.3X1231.9X3670.3	H2L0517	323-326	291-294	12-13.5	0.70	0.3	0.26	0.06	1.0	0.15	/	0.03	0.02	/	50.05	Rebar/rod	115.15-115.40MM.		



0013844

W. 75644
DAR

W. 75644

CO. 75644 DACT

PO. 13842

Certificate of Mill Test Results

BARRE RONDE ALUMINIUM 6061-T6511
2375" DIA X 144.0000"
PART NO.

PO/REL 10911
Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultent

BL VIM-457660-002

15JUL15
Pg 3/4

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

*Best in
Class*

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:	CUSTOMER PART NUMBER:	PRODUCT DESCRIPTION:		
VIM-631575-1	509/STK	KAISERSELECT PRECISION ROD 2.375+/-008		
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:
688476	001	06/11/2015	Z00169142	6081
WEIGHT SHIPPED:	QUANTITY:	BL NUMBER:	DIAMETER/THKNS:	TEMPER:
1000.000 LB	18,000 PCS	612242		12.000 FT
SHIP TO:		SOLD TO:		

Actual Physical Properties

REFERENCE	DATA#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUC2.	END
Z00169142	0001	1	53.7	52.0	14.4	RE	95	N/A
Z00169142	0001	2	52.5	47.9	17.3	RE	91	N/A
Z00169142	0001	3	52.1	49.5	17.9	RE	94	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ra	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.2h	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
104892	.75	.29	.28	.09	.92	.10	.06	.02	.00	.00	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/9 (REAF 2012)
UNSM A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM
MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION
= 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00180985
Kaiser Order Number: 688476
Line Item: 001

Page 1 of 1

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

MANIFEST NUMBER	324772	DIE NUMBER	RD0027
CUSTOMER ID	VIM-640120	DATE OF SHIPMENT	3/2/2017
CUSTOMER PART NUMBER	RD0027	SALESPERSON	D. Schroeder (Canada)
DESCRIPTION	Lightning Rod Tite 3.750 +/- 012		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification avision, and has been found to meet the applicable requirements described herein, including any specifications described, description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

OUR ORDER NUMBER	ITEM
287353	1
CERTIFICATION	
ASTM-B221-14 StencilCont	

SPECIFICATION
AMS-QQA-2008 Rev-A

Test	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
			min	max	min	max	min	max
3	201703076	2/25/17	50.50	53.30	45.80	49.60	15.60	17.10

Calvin J. Wiggins
3/2/2017

Chemical Composition for Aluminum Alloy 6061													
Cast#	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Melt Source:
												Each	
001K170214B	201703076	6061	0.75	0.38	0.30	0.12	0.89	0.10	0.03	0.03	97.41	0.05	0.15 United States of America
001M170214B	201703076	6061	0.75	0.39	0.31	0.12	0.89	0.10	0.03	0.03	97.40	0.05	0.15 United States of America
001M170214C	201703076	6061	0.75	0.38	0.32	0.11	0.87	0.10	0.02	0.03	97.43	0.05	0.15 United States of America
001M170214E	201703076	6061	0.75	0.39	0.31	0.12	0.89	0.10	0.03	0.03	97.38	0.05	0.15 United States of America

Print Date: 3/2/2017

Rev 9/2/16

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

KAISER

ALUMINUM

FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:		
5400386341-3		ALRD00013		KAISERSELECT PRECISON ROD 6.250 +/- .022		
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:	
6047420	003	02/09/2018	Z00028320	6061	T6511B	
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:	
866.000 LB	2.000 PCS	621768			12.000 FT	

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00028320	0001	0001	57.3	54.0	12.4	RE	92	N/A
Z00028320	0002	0001	58.9	55.4	11.7	RE	93	N/A
Z00028320	0003	0001	55.9	52.5	13.2	RE	95	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108132	.72	.24	.27	.09	.91	.09	.01	.02	.00	.00	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILITIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Plant Serial: 00321079
Kaiser Order Number: 6047420
Line Item: 003

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6R6.250
 DATE: MAR 07 2018

PO / BATCH NO.: 039087/504855

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 6.250
 THICKNESS RECEIVED: 6.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<i>A27m B221</i>
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<i>Heat # 20028320</i>
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-8 MAR 07 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6511/T6510/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4174/128/4115/4116)
OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4166)
OR ASTM B211 OR ASIM B221

△ PART NUMBER: M6061T6R(D,DDD)

DIA.

WHERE "D,DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-09-09
MP

REFORMAT DWG ADD B211& B221 SPEC (ZN D8-1).		CP	09-07-13
B	REF PAR 08-020A	DS	01-08-08
A	NEW ISSUE	BY	DATE
REV.	DESCRIPTION	DART AEROSPACE LTD	
DESIGN		HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		MFG. APPR.	SHEET 1 OF 1
MFG. APPR.		APPROVED	SCALE
DE APPR.		DATE	NOTES
		09.07.13	60061-16 ROUND BAR
			© 2001 BY DART AEROSPACE LTD
			THE DOCUMENT CONTAINED HEREIN IS UNCLASSIFIED BY DART AEROSPACE LTD
			DATE 09.07.13 BY DART AEROSPACE LTD

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061t6R3.750
 DATE: MAR 07 2018

PO / BATCH NO.: 039087/5048550

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.750
 THICKNESS RECEIVED: 3.750
 SHEET SIZE ORDERED: 11x11
 SHEET SIZE RECEIVED: 11x11

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<i>Assm 0221</i>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<i>Heat # 201703076</i>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAR 07 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQA-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/128/4115/4116)
OR QQ-A-200/8 OR AMS-QQA-200/8 (OR AMS 4160)

PART NUMBER:

אנו מומחים

WHERE "D.DDD" = DIAMETER IN INCHES

- 2 - 2010 EDITION - 1600011600 625

PURCHASE MATERIAL: 6061-T6/T651/T6511/T672 ALUMINUM ROUND BAR
 SPECIFICATION: QQ-A-2258 OR AMS-QQA-2258 (OR AMS 4117/4128/4115/4116)
 OR QQA-2008 OR AMS-QQA-2008 (OR AMS 4160)
 OR ASTM B21 OR ASTM B22
 PART NUMBER: M6061T6R(D, DDD) 
 WHERE "D, DDD" = DIAMETER IN INCHES

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RELEASED
R 2009-09-03
[Signature]

B	REFORMAT DWG. ADD B2118/B221 SPEC (ZN D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DART AEROSPACE LTD		
DRAWN	HAWKESBURY, ONTARIO, CANADA		
CHECKED	DRAWING NO.	REV. B	SHEET 1 OF 1
MF. APPR.	M6061T6R	SCALE	
APPROVED	TITLE	NTS	
DE. APPR.	606-1-T6 ROUND BAR		
DATE	09.07.13		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606146R2.375
 DATE: MAR 07 2018

PO / BATCH NO.: 039087/5048549

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4
 QUANTITY INSPECTED: 4
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.375
 THICKNESS RECEIVED: 2.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>ASTM B221</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>Heat # 200169142</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89</u> MAR 07 2018	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T672 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 4117/4128/4115/4116)
OR QQ-A-20078 OR AMS-20078 (OR AMS 4160)
OR ASTM B211 OR ASTM B227

△

PART NUMBER:

M6061T6R(D,DDD)

DIA.

WHERE "D,DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-08-09
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B		REFORMAT DWG. ADD B211& B221 SPEC (ZN DB-1).		CP	09/07/13
A		REF PAR 08-020A	NEW ISSUE	DS	01/06/08
REV.		DESCRIPTION		BY	DATE
DART AEROSPACE LTD HAWTHORPE, ONTARIO, CANADA					
DESIGN		DRAWN	DRAWING NO.	REV. B	
DRAWN		CHECKED	M6061T6R	SHEET 1 OF 1	
CHECKED		MFG. APPR.		NTS	
MFG. APPR.		APPROVED		NTS	
APPROVED		DE APPR.		NTS	
DE APPR.		DATE	09/07/13	NTS	

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T651.250X14000
 DATE: MAR 07 2018

PO / BATCH NO.: 039087/6048548

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8'
 QUANTITY INSPECTED: 8'
 QUANTITY REJECTED: 0'

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>N</u>	
CORRECT FINISH	<u>Y</u>	N	
CORROSION	Y	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	N	<i>Astun B209</i>
CORRECT THICKNESS	<u>Y</u>	N	
PHOTO REQUIRED	Y	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	N	<i>Heat # H2L0522</i>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	N	
CORRECT M# ON THE MATERIAL	<u>Y</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> 9-39 MAR 07 2019 DATE:	SIGNED OFF BY: _____ DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET
 SPECIFICATION: 00-A-250/11 OR AMS-QQ-A-250/11
 OR AMS 4025 OR AMS 4027
 OR ASIN B209

A

PART NUMBER:

M6061T6S | XXX

THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)
 EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE:
 .XXX BY 4FT BY 8FT

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RELEASED
 2009-09-10
M

B	REFORMAT DWG. ADD B209 SPEC (ZN DB-1), REF PPR 00-021A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08

REV.

DESCRIPTION

BY

DATE

DESIGN	DART AEROSPACE LTD HAWKESBURG, ONTARIO, CANADA		
DRAWN	<i>[Signature]</i>	DRAWING NO.	REV. B
CHECKED	<i>[Signature]</i>	M6061T6S	SHEET 1 OF 1
MFG. APPR.	<i>[Signature]</i>	TITLE	SCALE
APPROVED	<i>[Signature]</i>	6061-T6 SHEET SPEC	NTS
DE APPR.	<i>[Signature]</i>		
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